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CALLITHAMNION HETEROMORPHUM J. Ag. California.

CHANTRANSIA EFFLORESCENS, Thuret. (*Callithamnion* Ag.). On *Rhodymenia*. Gay Head, Mass.

DESCRIPTION OF A NEW ALGA OF CALIFORNIA.

BY PROF. DANIEL C. EATON, OF YALE COLLEGE.

NITOPHYLLUM SPECTABILE, fronde subsessili, erecta, maxima, costata atque ut videtur avenia, oblonga, profunde pinnati-lobata; parte media duplo vel triplo latitudine loborum, sæpe in lobum terminalem magnam producta; lobis laciniisve crebris, patulis, liguliformibus sæpius integris, nunc apice lobatis vel profundius partitis, margine vix undulata, rarissime phylla minima obovata e margine vel e disco emittentibus; soris et coccidiis per totam frondem creberrime conspersis.

Hab. ad Sanctam Crucem, California: legit Anderson, Aug.-Sept. 1874.

Among the largest species of the genus, often two feet long, or even longer, and, in the spread of the lobes, two-thirds as broad. The lobes are so crowded as to overlap each other, and are 6-8 inches long and about an inch wide, lanceolate or strap-shaped, rather obtuse, mostly entire, but now and then two to three forked, or slightly dichotomously lobed. One specimen bears numerous minute obovate proliferations along the margin, and sparingly on the disk, especially where there has been some injury. No veins visible. The tetraspores are in oblong or irregular sori, thickly scattered all over the frond; and in the fruiting, plant mature and young coccidia are sprinkled with almost equal profusion. The substance is rather firm, but thin, and not adhering very well to paper, except in the younger portions. I find but two layers of cells in the sterile portions of the lamina. The color is a dull purplish-red, more rosy in the newer portions.